Assistive Technologies Catalogue

Hardware and Software Standards

Prepared by: Assistive Technologies Team
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Introduction

Assistive Technology hardware and software products can be a key enabler in accommodating the needs of people with disabilities who require access to electronic media, and, in certain instances, may increase the productivity and effectiveness of those without disabilities.

The purpose of this document is to outline the various features and capabilities of the assistive technology standards TD has recommended for use, and to explain the characteristics of users who would benefit from their use. This list is not intended to cover all disability types, but rather the most common solutions which assist the needs of visual, hearing and dexterity impairments.

No one product necessarily accommodates the complete needs of individuals with disabilities. A combination of hardware, software and services may be required to provide an effective accommodation solution. This is why it's essential to conduct a comprehensive assessment which includes participation from the person with disabilities in the evaluation, testing and selection of Assistive Technology solutions.

It's helpful to recognize the compatibility features of Assistive Technology solutions within each of TD's technology environments. While some devices are designed to be 'plug and play' and integrate seamlessly with Windows based operating systems, in some instances, special software drivers and/or programming may be required to allow AT solutions to work with business specific or customized applications.

When recommending a product it will be important to identify if the minimum hardware specification of the employees workstation will be suitable to operate the Assistive Technology product. **Please consult with our Assistive Technology Specialists who can assist in determining any limitations / restrictions of AT products and services to interoperate seamlessly across each lines of business technology environment.**

For each Assistive Technology hardware or software product in this catalogue a section called "Environments Certified for use at TD" is included, which reports the availability and status of the product. The status is shown as Red or Yellow or Green corresponding to each of the five TD computing environments. The following describes the meaning of the color status.

GREEN – The Assistive Technology product can be readily deployed into the computing environment.

YELLOW – The Assistive Technology product is currently undergoing certification / testing to validate it will function properly within the computing environment.

RED – The Assistive Technology product may exhibit incompatibility issues within the computing environment and/or has yet to enter the certification / testing process.

To ensure that the solution is compatible and sustainable, it is recommended that one of our Assistive Technology Specialists be consulted during the assessment phase or prior to making any formal product recommendations. For better success the Assistive Technology team must be contacted for the following cases:

- Anytime a recommended product is not in this catalogue
- Anytime a recommended product in this catalogue is 'not' status green for the users computing environment
- Anytime software is recommended as part of the solution
- Anytime we have a case outside of the current core support of vision, hearing, ergonomic and dexterity

Please contact the Assistive Technology team by e-mail at **AT-Support@td.com** or by calling Brad Boyd at 519-663-1689

About Product Life Cycle

Introduced	vendor announced product availability in the market place
AT Standard	became an Assistive Technology Standard at TD
Contained	availability restricted, approaching retirement
Retired	is no longer available from the vendor for new orders
End of Service	is no longer supported by vendor

Monitors at TD

TD offers a variety of Dell LCD monitors to accommodate the specific needs of our employees. Our tested and certified monitors available at TD are, 19", 22" (except Retail use 19" or 24"), 24" and 30" (except Retail use 19" or 24"). Our current standard issue for new orders are 17" for retail (moving towards 20" in the future), and 22" for corporate.

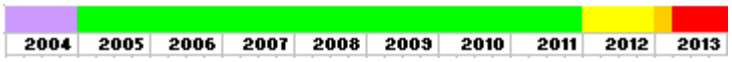
AT Solutions at a Glance

Category	Product Name	Page	Dexterity	Learning/Cognitive	Vision	Hearing
Keyboards	Big Keys LX Keyboard	5	✓			
Keyboards	Compact Scissor-Switch Keyboard	6	✓			
Keyboards	Keys-U-See Keyboard	7			✓	
Keyboards	Microsoft Natural® Ergonomic Keyboard 4000	8	✓			
Keyboards	Microsoft® Bluetooth® Mobile Keyboard 6000	9	✓			
Keyboards	X-Keys Programmable Keypad	10	✓	✓		
Pointing Devices	3M Vertical Mouse	11	✓			
Pointing Devices	Wacom Bamboo Touchpad	12	✓			
Pointing Devices	Humanscale® Switch Mouse	13	✓			
Pointing Devices	Kensington Expert Mouse®	14	✓			
Pointing Devices	Microsoft® Wireless Mouse 5000	15	✓			
Pointing Devices	Contour Design Roller Mouse Free 2	16	✓			
Software	Dragon Naturally Speaking Professional 11	17	✓	✓		
Software	JAWS for Windows 12.0	18			✓	
Software	Kurzweil 1000 11.0	19		✓	✓	
Software	ZoomText 9.19	20		✓	✓	
Displays	Smartview Synergy Document Magnifier	21			✓	
Displays	Humanware® Smartview Versa Handheld Magnifier	22			✓	
Displays	Video Remote Interpreting for Deaf/Hard of Hearing	23				✓
Telephony	Plantronics HW251N Headset and MX10 Amplifier	24	✓		✓	✓
Telephony	Ultratec Superprint 4425 Tele Typewriter (TTY)	25				✓
Telephony	Serene UA50 Headset/Handset Telephone Amplifier	26				✓
Telephony	Ameriphone Voice Carry-Over (VCO)	27				✓
Accessories	Kinesis Low Force Tactile Numeric Keypad	28	✓			

Big Keys LX Keyboard — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	18.5"	37cm
Height	1.25"	3cm
Depth	7"	18cm
Cord	72"	180cm
Weight	45.8oz	1.3kg

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
	X	X		X	X		

This is a keyboard with large keys, about 1 " square in size. The keyboard comes in 2 different contrasting colours to assist with challenges such as limited motor skills and for low vision needs.

Key features and capabilities:

- Individuals with fine motor ability will benefit with the availability of large keyboard keys
- All standard punctuation characters are included
- Press and hold the "F" key and the numeric keys become F1 - F10
- The keyboard provides an Assist Mode. In Assist Mode, the function keys can be called up by successively pressing F and the numeric key (rather than simultaneously pressing the 2 keys.)
- "Run-on" eliminated as a single key depression causes one character to be sent to the computer no matter how long it is held down
- Device is plug and play
- Key Size: 2.5cm2

Manufacturer:

Manufacturer:	Item Number
Greystone Digital Inc.	BKLXBQ

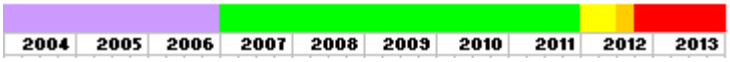
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Compact Scissor-Switch Keyboard — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	11.81" / 15.75"	30cm / 40cm
Height	0.71"	1.8cm
Depth	5.91"	15cm
Cord	60"	152cm
Weight	1.32lbs / 1.76lbs	600g / 800g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X			X			

This keyboard is a low profile, low footprint keyboard with a unique button technology that reduces strain during typing. It can be beneficial for users with dexterity needs, and especially those who may have discomfort due to resistance when pressing regular keyboard keys

Key features and capabilities:

- Very compact keyboard
- Letter keys are full size
- Soft touch keys (Scissor Switch Membrane)
- Fits on all standard TD keyboard trays
- USB port required - Plug & Play

Manufacturer:

Manufacturer:	Item Number
SolidTek	SK3001H (with out number pad) SK5100U (with number pad)

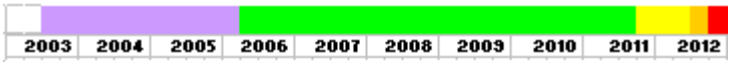
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Keys-U-See Keyboard — Vision

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	19"	48cm
Height	1.5"	4cm
Depth	7"	17.5cm
Cord	58"	147cm
Weight	18.7oz	530g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		

These keyboards come in 3 varieties of high contrast colours that can make the lettering easier to see. This keyboard is available for users who would benefit by having larger print letters and contrasts for their low vision needs.

Key features and capabilities:

- 3 colours schemes available
- Standard English QWERTY layout
- Large print on keys
- Plug and Play® USB
- USB port required

Manufacturer:

Manufacturer:	Item Number
Custom Keys	YKB-LP-YUSB (Black on Yellow) YKB-LP-IUSB (Black on White) YKB-LP-BUSB (White on Black)

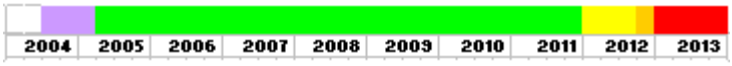
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Microsoft Natural® Ergonomic Keyboard 4000 Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	19.7"	50.2cm
Height	5"	2cm
Depth	26.2"	10.3cm
Cord	60"	153cm
Weight	45.9oz	1.3kg

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X					X		

This keyboards split design encourages a more natural hand, wrist, and forearm position and its curved key layout makes keys easier to reach. It also utilizes a reverse tilt to reduce stretching of the tendons. It is designed to benefit those with mobility or dexterity needs, to help prevent injuries due to strain and can greatly enhance the ergonomics of a work environment.

Key features and capabilities:

- Contoured design and ‘reverse sloped’ keys allows the users hands and wrist to rest more naturally while working
- Zoom Slider is available to easily zoom in on information in Microsoft Office and Internet Explorer applications, without taking your hand off the keyboard
- Improved number pad, where commonly used symbols such as equal sign, left and right parentheses, and "Backspace" are in quick reach, just above the number pad
- E-mail and Internet hot keys: Press a button for quick, access to e-mail and favorite Web sites
- Several productivity features (hot keys, etc.) for use in Microsoft Applications, such as Word
- Cushioned palm rest
- USB port required

Manufacturer:

Manufacturer:	Item Number
Microsoft	B2M-00013

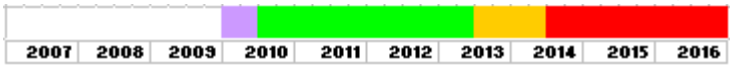
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Microsoft® Bluetooth® Mobile Keyboard 6000 Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	13.94"	35.5cm
Height	0.63"	1.67cm
Depth	6.58"	16.7cm
Cord		
Weight	14.64oz	415g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X						

The curve design supports natural wrist posture and is easy to use. It has a low profile and small foot print. It is designed to benefit those with mobility or dexterity needs.

Key features and capabilities:

- Wireless keyboard and mouse eliminates restraint or resistance caused by connecting cables
- Contoured design of the keyboard keys allows the users hands and wrist to rest more naturally while working
- Keyboard requires two “AAA” batteries: not rechargeable (included)
- Estimated battery life is 6 months
- USB with Bluetooth compatibility (Bluetooth Adaptor required)

Manufacturer:

Manufacturer:	Item Number
Microsoft	CXD-00003 - Keyboard F8T016 - Belkin Bluetooth adaptor ($14.56)

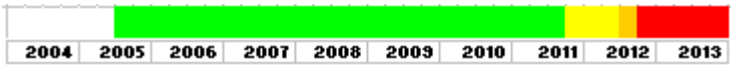
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

X-Keys Programmable Keypad — Dexterity Learning/Cognitive

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	4.25"	10.8cm
Height	7"	17.8cm
Depth	1"	2.5cm
Cord	52"	132cm
Weight	9.25oz	260g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X		X		X			X

This device allows you to programmatically assign functions to the keys on the keypad. As an example, you can program it to launch application(s), type in some text, or perform a series of keystrokes. It is designed to benefit those with mobility or dexterity needs by reducing the need for repetitive typing, but can also be an overall productivity enhancer.

Key features and capabilities:

- Any keystroke or sequence of keystrokes (up to 900 keystrokes) from your PC keyboard can be stored in a single keypad key
- No battery or external power supply is required
- Options include slow output, layer toggle, key repeat, and stored key combinations like Shift-Ctrl
- 20 Key, 38 programmable functions (with one key programmed as a toggle)
- USB port required

Manufacturer:

Manufacturer:	Item Number
PI Engineering	XD-03-USB-R

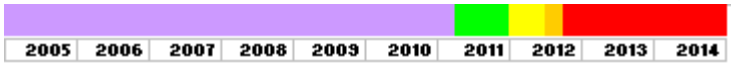
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

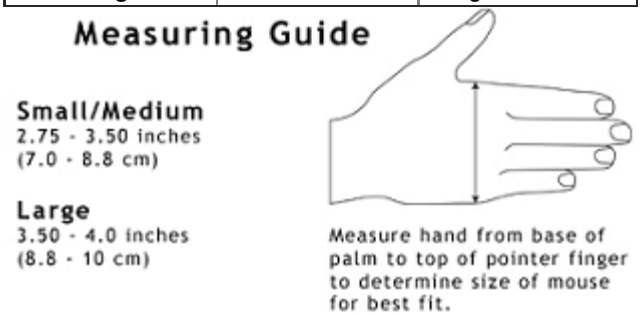
3M Vertical Mouse — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	3.25"	8.3cm
Height	4.0" - 4.5"	10.2cm - 11.4cm
Depth	4.5"	11.4cm
Cord	60"	180cm
Weight	7.05oz	200g


Measuring Guide
Small/Medium
2.75 - 3.50 inches
(7.0 - 8.8 cm)
Large
3.50 - 4.0 inches
(8.8 - 10 cm)
Measure hand from base of palm to top of pointer finger to determine size of mouse for best fit.

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X			X				

This mouse has a shape similar to that of a joystick and completely supports your wrist through the entire mousing motion. It can greatly reduce stress associated with the constant use of a standard mouse, such as muscle strain and discomfort associated with carpal tunnel syndrome and repetitive stress injury.

Key features and capabilities:

- The 3M™ Renaissance™ Mouse is a new, ergonomically designed input device with a "handshake" design
- Uses larger muscles to move mouse, reducing risk of discomfort
- Left and right click functions using the thumb button on the top of the vertical grip
- Size guide: Measure hand from base of palm to top of pointer finger to determine size of mouse for best fit
  Small: 2.75" to 3.50" (7.0 cm to 8.8 cm)
  Large: 3.50" to 4.0" (8.8 cm to 10.0 cm)
- Easy electronic scrolling function reduces scrolling to a single click (PC model only)
- USB port required – plug & play

Manufacturer:

Manufacturer:	Item Number
3M	EM550GPS (small/Medium) EM550GPL (large)

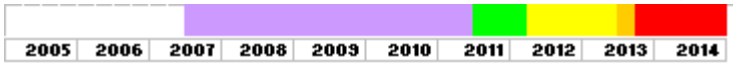
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Wacom Bamboo Touchpad — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	8.2"	20.8cm
Height	0.2"	0.5cm
Depth	5.4"	13.7cm
Cord	72"	180cm
Weight	7.6oz	215g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X			X	X			

This multi-touch touchpad, with its extra-large touch surface provides an alternative mousing movement for users. It is functional for both left and right handed use and benefits those with dexterity or ergonomics needs.

Key features and capabilities:

- Add Multi-Touch input to any computer. Navigate, scroll, and accomplish all your tasks using simple hand gestures
- Ample touch area 4.9" x 3.4" (125mm x 85mm)
- Easy to move around your desktop, scroll through documents, navigate the web, zoom in and out of photos, and rotate images
- USB port required

Manufacturer:

Manufacturer:	Item Number
Wacom	CTT460

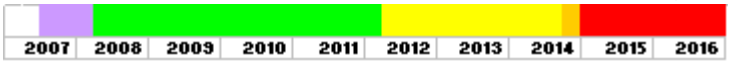
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

Humanscale® Switch Mouse — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	3"	7.6cm
Height	1.25"	3cm
Depth	6.25"-7.5"	10.6cm-19cm
Cord	59"	150cm
Weight	31.74oz	900g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X		X					

This fully resizable, left and right handed mouse supports your entire wrist as you use it. It is designed to be used and fit almost any hand size. It can be benefit users with a ergonomic or dexterity needs.

Key features and capabilities:

- Design allows for use by either left or right hand
- Ergonomically designed provide relaxed hand support and to take the stress out of mousing
- Size adjustability to provide a perfect fit for any computer user. 10 adjustable sizes available
- V-shaped base, which puts the wrist and forearm into a natural position for left or right-handed users
- USB connection to workstation
- User interface to program mouse buttons
- Direction pad for vertical and horizontal movement
- USB Port required

Manufacturer:

Manufacturer:	Item Number
Humanscale	112-6547 - Laser sensor model

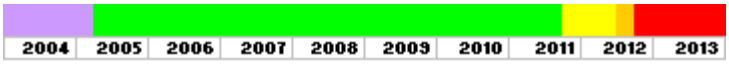
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Kensington Expert Mouse® Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	5"	12.7cm
Height	2.5"	6.3cm
Depth	5.75"	14.6cm
Cord	72"	180cm
Weight	1.9lbs	862g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X		X	X				

This device is a trackball design that allow for easy maneuverability of the mouse with as little as one finger. It has a 4 button design that gives you the ability to program two buttons with commonly preformed functions. This device benefits those with dexterity needs.

Key features and capabilities:

- Optical tracking for better accuracy
- Precise fingertip scrolling
- Hand support is available for improved comfort
- Large ball for maximum precision, control and helpful for users with limited fine motor ability
- Detachable wrist rest (not shown) cradles the users hand for additional support \ comfort
- Option to program additional buttons
- USB port required

Manufacturer:

Manufacturer:	Item Number
Kensington	64325

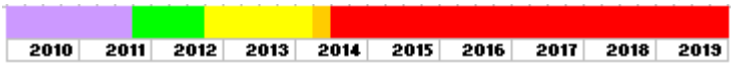
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

Microsoft® Wireless Mouse 5000 — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	2.77"	7cm
Height	1.66"	4cm
Depth	4.59"	12cm
Cord	Range 30 ft	9m
Weight	5.36oz	152g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X						

This device is wireless mouse that can be used with either the right or left hand.

Key features and capabilities:

- Wireless mouse eliminates restraint or resistance caused by the connecting cable
- BlueTrack Technology combines the power of optical with the precision of laser for remarkable tracking on virtually any surface
- Mouse is suitable for left or right hand
- USB receiver included
- Mouse requires two “AA”: not rechargeable (included). Estimated battery life is 8 months
- Two programmable side buttons
- USB port required

Manufacturer:

Manufacturer:	Item Number
Microsoft	MGC-0003

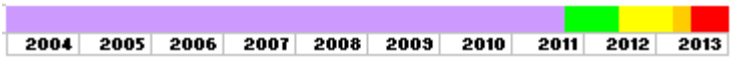
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Contour Design Roller Mouse Free 2 — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	17.25"	43.8cm
Height	1.25"	3.2cm
Depth	4.5"	11.4cm
Cord	60"	153cm
Weight	24oz	680g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X			X			

This alternative mouse provided you an easy to use rolling bar to interact with and to manipulate the mouse. The design of the mouse that butts up close to your keyboard reduces reaching injuries associated to reaching for the mouse. This device benefits those with dexterity, mobility and ergonomic needs.

Key features and capabilities:

- Roller Bar Width 6.8125"
- USB and PS/2 interface is supported
- The Roller Bar provides cursor control by sliding left to right, up and down, and diagonally
- Pressing the Roller Bar also performs single click operation
- Middle Button performs Double Click
- Left button is standard single click Right button selects contextual menus
- Scroll Wheel can be pressed to perform AUTO scroll function
- Replaceable Wrist Rests
- Product is plug & play

Manufacturer:

Manufacturer:	Item Number
Contour Design	RM-FREE2-BLK (Black)

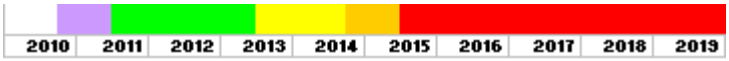
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Dragon Naturally Speaking Professional 11 Dexterity Learning/Cognitive

Physical Characteristics

Product Life Cycle



System Requirements

	Minimum
Processor	Pentium 4 2.4 Ghz
RAM	2GB
Total RAM	2-4GB Depending on Applications
Hard Disk	1GB
OS	Windows XP
Other	Sound Card

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X	X	X	X			X

Dragon Naturally Speaking is software that allows you to speak to your computer to accomplish data entry or to navigate your applications on your computer. Dragon will benefit individuals with mobility, dexterity, and ergonomic needs and is also useful for individuals who may have written expressive difficulties.

Key features and capabilities:

- Assists persons with dexterity disabilities who may have limited to no use of hands for normal keyboarding
- Dictate, edit and control applications all by voice with programs like Microsoft® Word, Microsoft® Outlook, Microsoft® Excel, Microsoft® PowerPoint, Internet Explorer®, Lotus® Notes, and more
- Smart Formatting lets you specify how to format dates, measurements, acronyms or any word to meet your requirements
- Smart Text & Graphics Shortcuts let you instantly define the variable values in any boilerplate text, or have Dragon Naturally Speaking prompts you with variable value choices
- Create voice commands that automate multi-step tasks

Manufacturer:

Manufacturer:	Item Number
Nuance	A209A-G00-11.0 Version: 11

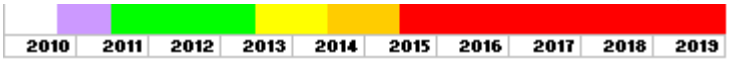
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

JAWS for Windows 12.0 Vision

Physical Characteristics

Product Life Cycle



System Requirements

	Minimum
Processor	Pentium 4 2.4 Ghz
RAM	2GB
Total RAM	2-4GB Depending on Applications
Hard Disk	200Mb
OS	Windows XP
Other	Sound Card

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		

This application is a text to speech application that is meant as a replacement for the mouse, and the computer screen. It provides you contextual information about the environment you are working with. It benefits those who are blind or have low vision needs.

Key features and capabilities:

- JAWS® for Windows® is available for individuals who require the use of a powerful / customizable screen reader
- Built-in Auto-speak Macro keys that make decisions and read the screen automatically
- Screen enhancements which recognize dynamic text formatting
- Numerous voice configurations
- Special Help Mode to assist with learning keyboard commands
- Included are RealSpeak Synthesizers for clearer speech
- Numerous predefined application settings to allow for out of the box use with most productivity applications

Manufacturer:

Manufacturer:	Item Number
Freedom Scientific	340026-001 Version: 12

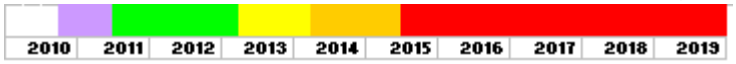
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

Kurzweil 1000 11.0 — Learning/Cognitive Vision

Physical Characteristics

Product Life Cycle



System Requirements

	Minimum
Processor	Pentium III 700Mhz
RAM	2GB
Total RAM	2-4GB Depending on Applications
Hard Disk	625Mb
OS	Windows XP
Other	Sound Card, Scanner, CD-ROM, MP3 en/decoder

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		X

This application is a text to speech application that performs OCR (Optical Character Recognition) on hard copy documents and creates a soft copy version. This allows you to read something or to interact with something that you may otherwise would not have. It benefits those who are blind, have low vision needs, or those who may have difficulties reading and processing information

Key features and capabilities:

- Kurzweil 1000® software makes printed text readily available to people who are blind or visually impaired. It combines accessibility, communication and productivity tools to ease and enhance their reading, writing and learning experience
- The software speaks text aloud in a variety of natural-sounding voices that can be modified to suit individual preferences. In addition, it provides users with document creation and editing as well as study skills capabilities for note taking, summarizing and outlining text
- Scanned in hardcopy documents can be saved to softcopy and referenced at a later time
- Kurzweil 1000 delivers quick access to a wealth of information including online books, magazines and encyclopedias so users can pursue any reading interests
- Kurzweil 1000 is easy to use for beginners, yet powerful and flexible for advanced users. With its wide array of useful features, users save time and gain independence – whether at home, at school, or at work

If you need access to documents that are only available as hard copies, utilize the TD Standard Certified Scanner in tandem with Kurzweil 1000.

Manufacturer:

Manufacturer:	Item Number
Cambium Learning Technologies/Kurzweil Educational	C-887 Version: 11

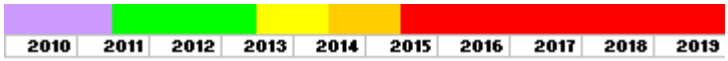
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

ZoomText 9.19 — Learning/Cognitive Vision

Physical Characteristics

Product Life Cycle



System Requirements

	Minimum
Processor	Pentium IV
RAM	2GB
Total RAM	4GB
Hard Disk	1GB
OS	Windows XP
Other	Sound Card, 24-bit Video Card

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		X

This application is a screen magnifier. It allows for the customization of many of the commonly used screen elements (cursors, colours, etc…) it also has an integrated screen reader that augments the user of this applications in cases of severe eye fatigue. This is designed to benefit low vision needs.

Key features and capabilities:

- Zoomtext will help to alleviate eye strain and reduce fatigue thereby increasing the productivity of users with low vision or other visual impairments.
- 1x to 36x magnification includes fractional powers of 1.25x, 1.5x, 1.75x and 2.5x
- Eight Zoom window types allow you to choose which part of the screen is magnified
- Displays the clearest magnified text possible at all magnification levels
- Color, contrast and brightness controls change screen colours to eliminate glare and reduce eyestrain
- Visible pointers and cursors enhance the size and color of the different pointers, making them easier to find and follow
- New synthesizer human- sounding voices are closer to the real thing than ever before
- Complete screen reading program, typing and mouse echo options narrate all actions. ZoomText can speak as little or as much as required
- AppReader or DocReader automatically read documents, web pages and email, highlighting each spoken word along the way
- ZoomTexts new reading zones let you instantly see and hear selected areas of your applications. Define up to 10 zones per application
- Dual monitor support for extended desktops

Manufacturer:

Manufacturer:	Item Number
AI Squared	B000NKK89U Version: 9.19

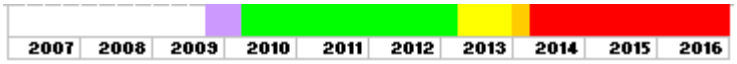
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

Smartview Synergy Document Magnifier — Vision

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	14"	35.5cm
Height	11.5"	29.2cm
Depth	19"	48.2cm
Cord	72"	180cm
Weight	22lbs	10kg

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		

This device is designed to digitally magnify a hardcopy document and display the image on your monitor. This is designed to benefit low vision needs.

Key features and capabilities:

- This unit will benefit users who have difficulty with reading “hard copy” documents due to small print and or the contrast
- Full screen magnifier view
- Four sizes of on-screen display characters
- Line markers and blinds
- Camera adjustable bright & color settings
- 3x - 60x magnification range allows you to increase the size of the image or text up to 60 times its original size
- Device is plug and play

Manufacturer:

Manufacturer:	Item Number
Humanware	TBD

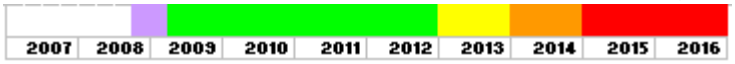
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	YELLOW

Humanware® Smartview Versa Handheld Magnifier Vision

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	5.5"	14cm
Height	3"	7.6cm
Depth	1"	2.5cm
Cord		
Weight	7oz	200g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X		

This device is designed to digitally magnify text on objects and display the image. Due to its small light weight size it is ideal for reviewing smaller objects around the work place that may be difficult to put under the document magnifier. This is designed to benefit low vision needs.

Key features and capabilities:

- Ideal magnification solution for users with roaming requirements or where a full size document magnifier cannot be utilized due to space constraints
- 5x to 15x magnification
- Autofocus
- 5 colour / contrast modes – white on black, black on white, yellow on blue, yellow on black, full colour
- Rechargeable lithium battery provides up to 2.5 hours of usage. Charge time: 4 hours
- Includes battery charger, protective case writing stand and carrying case
- Product comes with a 3 year manufacturer's replacement warranty which warrants against product defects. Excluded is any user inflicted damage. Replacement time will vary between 24 to 48 hours in most areas within southern and eastern Canada

Manufacturer:

Manufacturer:	Item Number
Humanware	VERSA

Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Video Remote Interpreting for Deaf/Hard of Hearing — Hearing

Physical Characteristics

Setup/Configuration

- Require Standard workstation (>= M55)
- Install software associated with Microsoft LifeCam Studio, install Webcam
- Microsoft Office Communicator (OCS) required
- Activate employees user ID for use with OCS

Software Requirements

	Configuration
Workstation	TD Standard (Minimum M55)
Webcam	Lifecam Studio
Monitor	TD Standard 19" *
Software	Microsoft Office Communicator (OCS) **
Mic/Speaker	Optional
Other Notes	*Monitor can be upgraded to 22" or larger as required. **Rich client must be utilized for video functionality

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
						X	

This solution provides hearing impaired users the ability to interact with a sign language interpreter via a webcam to communicate with teammates during meetings and other activities.

Key features and capabilities:

- Will allow remote access to ASL Sign Language Interpreters
- Easy to use – Similar to current industry standard chat/video programs
- Can support dual monitor for video image on one screen and business applications on the other screen

Manufacturer:

Manufacturer:	Item Number
Workstation:	Lenovo
Webcam:	Microsoft
Monitor:	Dell
Software:	Microsoft
Mic/Speaker:	Plantronics/Logitech

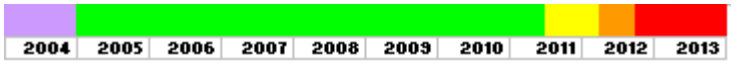
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	YELLOW	YELLOW	GREEN	YELLOW

Plantronics HW251N Headset and MX10 Amplifier Dexterity Vision Hearing

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	3.125"	8cm
Height	1.5"	4cm
Depth	4.75"	12cm
Cord	108"	270cm
Weight	20.81oz	590g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X	X	

This device is a dual input amplifier taking input from the workstation and phone. This device benefits those with hearing needs.

Key features and capabilities:

- Recommended as a companion to the JAWS software Package
- This category is an amplifier / switcher intended for use to listen to both telephone and PC audio. It has controls for both microphone and ear volume, and allows the client to move away from the telephone and PC without removing the headset or disconnecting a telephone call
- The Plantronics HW251N headset is a lightweight, noise-cancelling headset with a boom microphone
- Switch on amplifier to toggle between JAWS and telephone voice
- Device is plug and play

Manufacturer:

Manufacturer:	Item Number
Plantronics	HW251N / HW261N and MX10

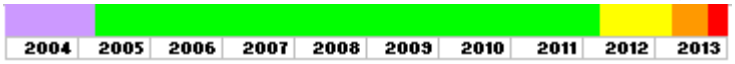
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Ultratec Superprint 4425 Tele Typewriter (TTY) Hearing

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	9.75"	25cm
Height	2.5"	6.4cm
Depth	10"	25.5cm
Cord	72"	180cm
Weight	59.97oz	1.7kg

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
						X	

This device is a Tele Typewriter. It allows you to communicate with a deaf individual via text over the phone line. This device benefits those with hearing needs.

Key features and capabilities:

- For individuals who require the use of a TTY with transcription capabilities
- A built-in ring flasher notifies you of incoming calls and interruption requests
- Built-in, 24-character printer with 3 selectable print sizes
- Turbo Code® and Auto ID™ -- E-Turbo for simplified relay calling**
- Sticky key feature (for single-handed typing)
- Tone or pulse dial
- Acoustic or direct connect (with 2 jacks) to standard analog telephone line (analog line, or ATA to convert digital line)
- Auto-Answer (with programmable message) - save and print messages when you are not available
- Remote message retrieval
- Keyboard dialing, follow-on dialing
- Call progress (says "ringing" or "busy")
- 32 k memory to store phone numbers and memo

Manufacturer:

Manufacturer:	Item Number
Ultratec	TDKUL0014

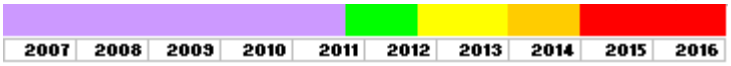
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Serene UA50 Headset/Handset Telephone Amplifier — Hearing

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	3"	7.6cm
Height	1.57"	4cm
Depth	4.33"	11cm
Cord		
Weight		

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
						X	

This device is a high yield amplifier. This device benefits those with hearing needs.

Key features and capabilities:

- Amplifies incoming voices up to 170+ times (50 + decibels) on your handset or headset
- Headset (not shown above) can be ordered separately if required
- Can be used with any headset with a RJ9 plug (same as telephone handset-cord connector)
- Patented technology enables it to work with virtually all business telephones
- High Definition Sound (HDS) Technology eliminates virtually all distortion, echo effects and unwanted static
- Digital Tone Enhancement boosts and enriches the speech frequencies that you can't hear well, making difficult to hear words intelligible again
- Automatic Volume Control optimizes sound level for superior listening comfort
- AC adapter included

Note: The UA50 will benefit employees requiring voice amplification. If a headset is required for ergonomic purposes only, please consult the Assistive Technologies team and / or your business unit to determine which headsets are suitable and compatible with the existing telephony equipment and environment.

Manufacturer:

Manufacturer:	Item Number
Serene Innovations	UA50

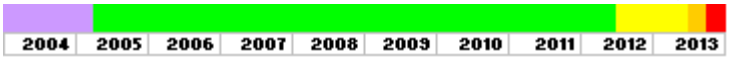
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Ameriphone Voice Carry-Over (VCO) Hearing

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	7.25"	18.5cm
Height	3.5"	9cm
Depth	9.25"	23.5cm
Cord	72"	180cm
Weight	47.97oz	1.36kg

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
					X	X	

This device is a high yield amplifier, Telephone and Tele Typewriter all in one. This device benefits those with hearing needs but can still speak.

Key features and capabilities:

- Individuals who require the use of an amplified phone with the ability to read text transcribed by the telco relay service
- Lets you speak to your callers while reading their words on a built-in two-line display screen, through a toll-free Relay Service. It is easy to use and no typing is required
- Built-in text answering machine – caller must use a toll-free Relay Service
- Can also be used as a standard amplified telephone
- Minimizes background noise and enhances clarity
- Adjustable volume control up to 26 decibels
- Bright visual ring flasher and extra loud ringer (85+ dB) with 3-position ring volume switch let you know when the phone is ringing
- Easy-to-see oversized keypad buttons with 10 speed-dial buttons
- Requires an analog telephone line

Manufacturer:

Manufacturer:	Item Number
Clarity	TDKPW0033

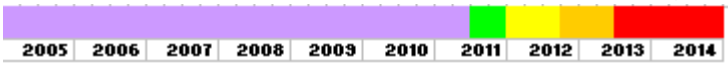
Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Kinesis Low Force Tactile Numeric Keypad — Dexterity

Physical Characteristics

Product Life Cycle



Dimensions	Imperial	Metric
Width	3.75"	9.5cm
Height	1.25"	3.2cm
Depth	6"	15.2cm
Cord	60"	152cm
Weight	3.18oz	90g

Characteristics of Users who will benefit:

Fatigue and Discomfort	Reaching Difficulties	Controlling Difficulties	Grasping Difficulties	One Handed	Vision Impairment	Hearing Impairment	Learning / Cognitive
X	X			X			

This device allows flexibility in positioning the keypad to the right or left of the keyboard and can be used with keyboards, or laptops. Its soft touch keys also can reduce strain on the fingers, wrists and joints. It can benefit those with dexterity or ergonomic needs.

Key features and capabilities:

- Allows or flexibility for users who require the ability to reposition their numeric keypad closer for left or right handed
- Device is plug and play
- USB port is required

Manufacturer:

Manufacturer:	Item Number
Kinesis Corporation	AC210USB-BLK

Environments certified for use at TD:

Corporate	Retail	Wealth	Wholesale	TD EDGE
GREEN	GREEN	GREEN	GREEN	GREEN

Inherent Microsoft Accessibility Options

TD Banks (CND) desktops are configured with a Windows XP operating system. Soon the TD EDGE (Windows 7) environment will be available. It is important to note that inherent within Windows are a number of 'low technology', 'low costs', solutions which may accommodate the basic needs of some individuals. We would encourage that Microsoft Operating Systems Accessibility features always be considered as part of workplace assessments to determine viability. For more complex assistive technology requirements, our IT Specialist can assist with selecting the most appropriate solutions that closely matches the specific disability and is certified for use within the clients' environment.

The following represents an overview of the Windows System Accessibility Options which can be accessed from the Start Menu, Settings, Control Panel, and then select Accessibility Options for the XP environment or Start Globe, Accessories, and then select Ease of Access Centre. For the TD EDGE environment, there will be an easy to access icon directly on the desktop. *It is important to note that all of the Accessibility Options below are available in all TD environments* unless otherwisre indicated.*

Microsoft Windows Accessibility Options

Display and Readability:
Font style, color, and size of items on the desktop
Icon size - make icons larger or smaller
Screen resolution - change pixel count to enlarge objects on screen.
High contrast schemes - select color combinations that are easier to see
Cursor width and blink rate - make the cursor easier to locate.
Microsoft Magnifier - enlarge portion/all of screen for better visibility.
[1] Touch Screen Support – allows for the use of touch screen monitors
[1] Make Objects Easier to See – select from 100%, 125% or 150%
[1] Remove Animations and Images – to reduce clutter and distraction

Sounds and Speech:
Sound Volume - turn computer sound up or down.
Sound Schemes - associate computer sounds with system events.
ShowSounds - display captions for speech and sounds.
SoundSentry - display visual warnings for system sounds.
Notification - sound or visual cues when accessibility features are ch'd.
Text-to-Speech - (Narrator) hear window command options and text.
Speech-to-Text - Speak to your computer and have it dictate or process your voice as a command.

Keyboard and Mouse:
Double-Click Speed - choose how fast to click the mouse for selection.
ClickLock - highlight or drag without holding down the mouse button.
Pointer Speed - set how fast the mouse pointer moves on screen.
SnapTo - move the pointer to the default button in a dialog box.
Cursor Blink Rate - choose how fast the cursor blinks, if at all.
Pointer Trails - follow the pointer motion on screen.
Hide Pointer While Typing - keep pointer from hiding text while typing.
Show Location of Pointer - quickly reveal the pointer on screen.
Reverse the function of the right and left mouse buttons
Pointer schemes - choose size and color options for better visibility.

Keyboard Options:
Character Repeat Rate - set how quickly a character repeats.
StickyKeys - allow pressing of one key at a time / simulate simultaneously
FilterKeys - ignore brief or repeated keystrokes and slow the rep.rate.
ToggleKeys - hear tones when pressing certain keys.
MouseKeys - move the mouse pointer using the numerical keypad.
Keyboard shortcuts – quickly access features without the need of a mouse
On-Screen Keyboard - virtual keyboard on the screen activated by Pointing device or joystick. – Predictive Text

Accessibility Centre:
[2] The Accessibility Wizard - to configure workstation accessibility options based on user interview.
[1] Ease of Access Centre – Central location to reference and adjust the

[1] Not available on Windows XP based systems [2] Not available for Windows 7 based systems *CDP, RLAN, Wealth, Wholesale, TD EDGE